

SEQUENCE LISTING

<110> Bayer AG

<120> NEUES EIMERIA GEN UND PROTEIN SOWIE DEREN VERWENDUNG

<130> LeA 36695 DE

<160> 24

<170> PatentIn version 3.1

<210> 1

<211> 1186

<212> DNA

<213> Eimeria tenella

<220>

<221> CDS

<222> (83) .. (679)

<223>

<400> 1

caggacccca aaataaaaatc aaaggctatc acactatttt acttcttaac cgtttactga 60

ggctacaaga acaagtttga ag atg agg act atc cta gcc acc cta gtc ggt 112  
Met Arg Thr Ile Leu Ala Thr Leu Val Gly  
1 5 10

ttc aca gcc tgc gca gcc gtt gct gca gac gga gca cct gag tat cct 160  
Phe Thr Ala Cys Ala Ala Val Ala Ala Asp Gly Ala Pro Glu Tyr Pro  
15 20 25

tct cag ctt gca gtt gaa atc gat cca gaa gcg att att gcg atc cag 208  
Ser Gln Leu Ala Val Glu Ile Asp Pro Glu Ala Ile Ile Ala Ile Gln  
30 35 40

caa gat gca aac gcc gac cca cgt ctc ttt ttc cca ctg agc ggg ctt	256
Gln Asp Ala Asn Ala Asp Pro Arg Leu Phe Phe Pro Leu Ser Gly Leu	
45 50 55	
gtc tcc gcc aaa ctt gcc aaa gtc ttt caa ccc aac ata tac cca acc	304
Val Ser Ala Lys Leu Ala Lys Val Phe Gln Pro Asn Ile Tyr Pro Thr	
60 65 70	
cct cct agt ccc cag aca act tac cac ttt cac ctc cat cct cat ccc	352
Pro Pro Ser Pro Gln Thr Thr Tyr His Phe His Leu His Pro His Pro	
75 80 85 90	
cat tat ccg cat cct cag cca agt tat cct cat cct caa ccc cat cat	400
His Tyr Pro His Pro Gln Pro Ser Tyr Pro His Pro Gln Pro His His	
95 100 105	
cct cat cct cat cct tat cat cct cat cct cat ccc cat cat cct cat	448
Pro His Pro His Pro Tyr His Pro His Pro His Pro His His Pro His	
110 115 120	
cct cat ccc cat caa cat cct cat cgt cat ccc gac cat cat ccc cac	496
Pro His Pro His Gln His Pro His Arg His Pro Asp His His Pro His	
125 130 135	
cat cat cct cac cat cat cat gaa cat aat gtt cat gtg cct caa	544
His His Pro His His His His Glu His Asn Val His Val Pro Gln	
140 145 150	
cat cag cac gct caa cac aac ggc cac cag aac aac ggt ggc cca gct	592
His Gln His Ala Gln His Asn Gly His Gln Asn Asn Gly Gly Pro Ala	
155 160 165 170	
cat tat cac cat gac tac cat ttt gcg cat cct cat caa gag aac cag	640
His Tyr His His Asp Tyr His Phe Ala His Pro His Gln Glu Asn Gln	
175 180 185	
cat cac cgc gag gaa gag cag ctt acc gac atc aac taa gctattggtc	689
His His Arg Glu Glu Glu Gln Leu Thr Asp Ile Asn	
190 195	
ggaaatataaag gtgccttagtc tcagtagtca gtacagtact aggctacgta tgagatcttc	749
atggcaaaga ggtaccagcc accaagctga ctggctatg ttttatttataa caaatttaaa	809
ttaaagggt cccagttca gtctctgcag gtctgcccct gaaagcacga gaggggccta	869
aagggtgatt ggagctgcaa atacagctgc aaatgcagct gcaaagtgcc gcttcaaaaa	929
agggacaggc ttcccgccaa aatttttggta tcatacctat caatgcttcg agaaaacata	989
gaaaacaaaa gcactgaaga acgttcatacg tcggtagttt tagggcatg ccgtgtgcta	1049
aaatcccatc gaacccatc gtacacctga tcgttacgaa gtacacacca ccggtcactc	1109
tcaacgcgca ccactagagc gagagctgct tcagggatgc agcgagatgt cgactcagag	1169
gtcctacatt aaaggga	1186

<210> 2

<211> 198

<212> PRT

<213> *Eimeria tenella*

<400> 2

Met Arg Thr Ile Leu Ala Thr Leu Val Gly Phe Thr Ala Cys Ala Ala  
1 5 10 15

Val Ala Ala Asp Gly Ala Pro Glu Tyr Pro Ser Gln Leu Ala Val Glu  
20 25 30

Ile Asp Pro Glu Ala Ile Ile Ala Ile Gln Gln Asp Ala Asn Ala Asp  
35 40 45

Pro Arg Leu Phe Phe Pro Leu Ser Gly Leu Val Ser Ala Lys Leu Ala  
50 55 60

Lys Val Phe Gln Pro Asn Ile Tyr Pro Thr Pro Pro Ser Pro Gln Thr  
65 70 75 80

Thr Tyr His Phe His Leu His Pro His Pro His Tyr Pro His Pro Gln  
85 90 95

Pro Ser Tyr Pro His Pro Gln Pro His His Pro His Pro His Pro Tyr  
100 105 110

His Pro His Pro His Pro His Pro His Pro His Pro His Gln His  
115 120 125

Pro His Arg His Pro Asp His His Pro His His His Pro His His His  
130 135 140

His His Glu His Asn Val His Val Pro Gln His Gln His Ala Gln His  
145 150 155 160

Asn Gly His Gln Asn Asn Gly Gly Pro Ala His Tyr His His Asp Tyr  
165 170 175

His Phe Ala His Pro His Gln Glu Asn Gln His His Arg Glu Glu Glu  
180 185 190

Gln Leu Thr Asp Ile Asn  
195

<210> 3

<211> 597

<212> DNA

<213> *Eimeria tenella*

<400> 3  
atgaggacta tcctagccac cctagtcgg ttcacagcct ggcgcagccgt tgctgcagac 60  
ggagcacctg agtatccttc tcagcttgc a gttgaaatcg atccagaagc gattattgcg 120  
atccagcaag atgcaaacgc cgacccacgt ctcttttcc cactgagcgg gcttgcgtcc 180  
gccaaactg ccaaagtctt tcaacccaaac atataccaa cccctcttag tccccagaca 240  
acttaccact ttcacacctca tcctcatccc cattatccgc atcctcagcc aagttatcct 300  
catcctcaac cccatcatcc tcatcctcat ctttatcatc ctcatcctca tccccatcat 360  
cctcatcctc atccccatca acatcctcat cgtcatcccg accatcatcc ccaccatcat 420  
cctcaccatc atcatcatga acataatgtt catgtgcctc aacatcagca cgctcaacac 480  
aacggccacc agaacaacgg tggcccagct cattatcacc atgactacca ttttgcgtcat 540  
cctcatcaag agaaccagca tcaccgcgag gaagagcagc ttaccgacat caactaa 597

<210> 4

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-22-up

<400> 4  
tcctcatctt tatcatcctc atcct 25

<210> 5

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-112-lo

<400> 5

gtggggatga tggtcggg

18

<210> 6

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-f-length-64-up

<400> 6

caggacccca aaataaaatc aaaggctatc aca

33

<210> 7

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-f-length-1176-lo

<400> 7

tgaccgggtgg tgtgtacttc gtaac

25

<210> 8

<211> 25

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer EtACTIN-up

<400> 8

ctgtgagaag aaccgggtgc tcttc

25

<210> 9  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer EtACTIN-lo  
<400> 9  
cgtgcgaaaa tgccggacga agag 24  
<210> 10  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer A17-max-90-up  
<400> 10  
tgaggactat cctagccacc ctagtcggtt tc 32  
<210> 11  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer A17-max-150-up  
<400> 11  
gagcacctga gtatccttct cagttgcag tt 32  
<210> 12

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-max-533-1o

<400> 12

tatgttcatg atgatgatgg tgaggatgat gg

32

<210> 13

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-max-631-1o

<400> 13

aggatgcgca aaatggtagt catggtgata at

32

<210> 14

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer pG8SAET-up

<400> 14

taggtgtagg tattgcacatc gtaactt

27

<210> 15

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer pG8SAET-lo

<400> 15

cgatataattc ggtcgctgag gcttgca

27

<210> 16

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer pG8SAET-seq-up-140

<400> 16

atgatgactt tacaaataca tacaggg

27

<210> 17

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-sequint-27-up

<400> 17

cgaggaagag cagcttaccg acatcaacta ag

32

<210> 18

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-sequint-44-up

<400> 18

ccgacatcaa ctaagctatt ggtcgaaat ta

32

<210> 19

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-sequint-385-lo

<400> 19

atgaggataa tttggctgag gatgcggata at

32

<210> 20

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer A17-sequint-351-lo

<400> 20

ggatgaggat ggaggtgaaa gtggtaagtt gt

32

<210> 21

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer M13 reverse

<400> 21  
cgagaaacag ctagac 17

<210> 22

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer M13 forward

<400> 22  
gtaaaaacgac ggccag 16

<210> 23

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer T7-Promotor

<400> 23  
attatgctga gtgatatccc 20

<210> 24

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer BGH reverse

<400> 24  
tagaaggcac agtcgagg 18

